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(71) Applicant (for all designated States except US): CURA-GEN CORPORATION [US/US]; 555 Long Wharf Drive, 11th Floor, New Haven, CT 06511 (US).

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(72) Inventors; and

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(75) Inventors/Applicants (for US only): BADER, Joel, S. [US/FR]; 80, rue Boissière, F-75116 Paris (FR). GOLD, Steven [US/US]; 36 Whiting Farm Road, Branford, CT 06405 (US). GUSEV, Vladimir [UA/US]; 1209 Durham Road, Madison, CT 06443 (US). LI, Shu, Xia [CN/US]; 15 Sunset Circle, Woodbridge, CT 06502 (US). SHENOY, Suresh [IN/US]; 15 Milwood Drive, Branford, CT 06405 (US). CRASTA, Oswald, R. [IN/US]; 95-2c Florence Road, Branford, CT 06511 (US). BOUFFORD, Pascal [CA/US]; 27 Crowes Nest Lane, Apt. 20B, Danbury, CT 06810 (US).

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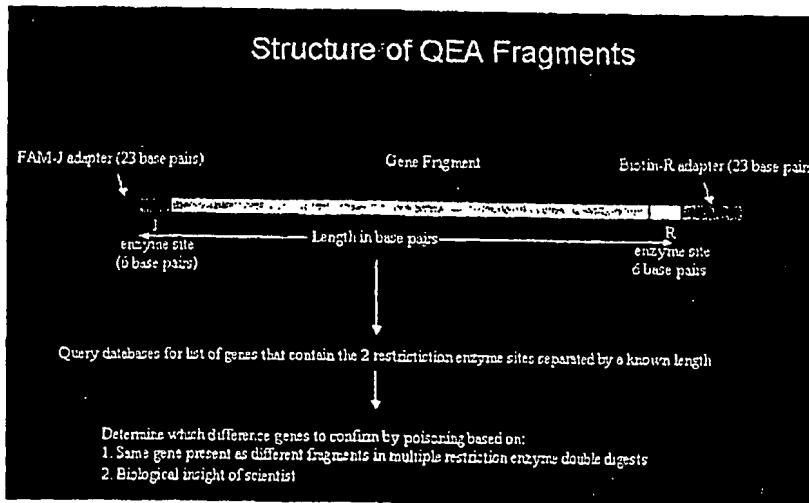
60/174,685  
09/755,398 6 January 2000 (06.01.2000) US  
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(74) Agent: ELRIFI, Ivor, R.; Mintz, Levin, Cohn, Ferris, Glovsky, and Popeo, P.C., One Financial Center, Boston, MA 02111 (US).

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:

US 60/174,685 (CIP)  
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Filed on 4 January 2001 (04.01.2001)*[Continued on next page]*

(54) Title: METHOD OF ANALYZING A NUCLEIC ACID



**Structure of QEA fragments.** The FAM labeled J adapter (23 base pairs long) and biotin labeled R region (23 base pairs long) are oriented to the gene fragment as shown. The J enzyme site and R enzyme site are the restriction sites for their respective adapters (6 bp long). The larger central region plus the 2 restriction enzyme sites originate from a targeted nucleic acid sequence.

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(57) Abstract: Disclosed are methods of selectively analyzing a nucleic acid in a sample. The methods allow for selective identification of a target sequence in a population of nucleic acids. For example, the methods allow for confirmation of the identity of a nucleic acid tentatively identified in a quantitative expression analysis (QEA) assay.



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|------------|-----------------------------|----|
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**INTERNATIONAL SEARCH REPORT**

Intr	National Application No
PCT/US 01/00300	

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, MEDLINE, EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 07896 A (ROTHBERG JONATHAN M ;CURAGEN CORP (US); DEEM MICHAEL W (US); SIMPS) 18 February 1999 (1999-02-18) cited in the application claims 1-14; figures 1-6 ---	1-16
A	SHIMKETS R A ET AL: "Gene expression analysis by transcript profiling coupled to a gene database query" NATURE BIOTECHNOLOGY, NATURE PUBLISHING, US, vol. 17, August 1999 (1999-08), pages 798-803, XP002130008 ISSN: 1087-0156 figures 1,4 ---	1-16 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

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Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 891 625 A (NIELSEN PETER EIGIL ET AL) 6 April 1999 (1999-04-06) claims 1-26; figure 6; example 6 ---	1-16
A	EP 0 333 465 A (BAYLOR COLLEGE MEDICINE) 20 September 1989 (1989-09-20) examples 1-4 -----	1-16

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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